

CERTIFICATE OF COMPLIANCE

Part 1 of 2 ENV-1

PROJECT NAME: Mountain View Senior Center
 PROJECT ADDRESS: 266 Escuela Avenue Mountain View
 TELEPHONE: (415) 781-1526
 DOCUMENTATION AUTHOR: ENERGY CALC CO.
 DATE OF PLANS: 22,870 sq. ft.
 BUILDING TYPE: NONRESIDENTIAL
 PHASE OF CONSTRUCTION: NEW CONSTRUCTION
 METHOD OF ENVELOPE COMPLIANCE: OVERALL ENVELOPE

STATEMENT OF COMPLIANCE
 The Principal Envelope Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the envelope requirements contained in Sections 110, 116 through 118, and 140, 142, 143 or 149 of Title 24, Part 6.
 I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am licensed in the state of California as a civil engineer or mechanical engineer, or I am a licensed architect.
 I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code by Section 5537.2 or 5737.3 to sign this document as the person responsible for its preparation, and that I am a licensed contractor performing this work.
 I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538, and 5737.1.

PRINCIPAL ENVELOPE DESIGNER - NAME: Tisha Slogsdill
 SIGNATURE: [Signature]
 DATE: 4/18/05

ENVELOPE MANDATORY MEASURES
 Indicate location on plans of Note Block for Mandatory Measures
 INSTRUCTIONS TO APPLICANT
 For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.
 ENV-1: Required on plans for all submittals. Part 2 may be incorporated in schedules on plans.
 ENV-2: Used for all submittals; choose appropriate version depending on method of envelope compliance.
 ENV-3: Optional. Use if default U-values are not used. Choose appropriate version for assembly U-value to be calculated.

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ENVELOPE COMPLIANCE SUMMARY

Part 2 of 2 ENV-1

Surface #	Surface Type	Framing Type	Area U-Fac.	Act. Azm.	Solar Gains TIR V/N	Form 3 Reference	Location / Comments
1	Roof	Metals	0.860	0.073	1.35	22	R-30 Roof
2	Wall	Metals	0.860	0.142	1.25	30	R-15 Metal Stud Wall
3	Wall	Metals	0.860	0.142	1.25	30	R-15 Metal Stud Wall
4	Wall	Metals	0.860	0.142	1.25	30	R-15 Metal Stud Wall
5	Door	Metals	0.860	0.142	1.25	30	R-15 Metal Stud Wall
6	Door	Metals	0.860	0.142	1.25	30	R-15 Metal Stud Wall
7	Door	Metals	0.860	0.142	1.25	30	R-15 Metal Stud Wall
8	Wall	Metals	0.860	0.142	1.25	30	R-15 Metal Stud Wall
9	Wall	Metals	0.860	0.142	1.25	30	R-15 Metal Stud Wall
10	Wall	Metals	0.860	0.142	1.25	30	R-15 Metal Stud Wall
11	Door	Metals	0.860	0.142	1.25	30	R-15 Metal Stud Wall
12	Wall	Metals	0.860	0.142	1.25	30	R-15 Metal Stud Wall
13	Roof	Metals	0.860	0.073	1.35	22	R-30 Roof
14	Wall	Metals	0.860	0.142	1.25	30	R-15 Metal Stud Wall
15	Wall	Metals	0.860	0.142	1.25	30	R-15 Metal Stud Wall
16	Door	Metals	0.860	0.142	1.25	30	R-15 Metal Stud Wall

Check box if Building is 100,000 sq. ft. or less and 10,000 sq. ft. or less of glazed area then NFRC Certification is required. Follow NFRC 100-88 Procedures and submit NFRC Label Certificate Form.

#	Type	Area U-Fac.	Act. Azm.	SHGC	Glazing Type	Location / Comments
1	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
2	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
3	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
4	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
5	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
6	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
7	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
8	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
9	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
10	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
11	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
12	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
13	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
14	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
15	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
16	Window	1.80	0.860	0.25	0.40	Double Metal Low-E

#	Exterior Shade Type	SHGC	Window Hgt. Wd.	Overhang Len. Hgt. LxT Rxt.	Left Fin Dist. Len. Hgt.	Right Fin Dist. Len. Hgt.
1	None	0.78				
2	None	0.78				
3	None	0.78				
4	None	0.78				
5	None	0.78				
6	None	0.78				
7	None	0.78				
8	None	0.78				
9	None	0.78				
10	None	0.78				
11	None	0.78				
12	None	0.78				
13	None	0.78				
14	None	0.78				
15	None	0.78				
16	None	0.78				

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ENVELOPE MANDATORY MEASURES

ENV-MM

PROJECT NAME: Mountain View Senior Center
 DATE: 2/11/2005
 DESCRIPTION: 110(a) Insulating material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20, Chapter 4, Article 2.
 110(b) All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2002 and 2003 of Title 24, Part 2.
 110(c) All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.
 110(d) Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unitized glass doors and fire doors).
 110(e) Manufactured Doors and Windows installed shall have air infiltration rates not exceeding those shown in Table Number 4.4 of the Standards. Manufactured fenestration products must be labeled for U-values according to NFRC procedures.
 110(f) Denaturing Walls in Nonresidential Buildings: The opaque portions of framed denaturing walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-11 between framing members.

Check box if Building is 100,000 sq. ft. or less and 10,000 sq. ft. or less of glazed area then NFRC Certification is required. Follow NFRC 100-88 Procedures and submit NFRC Label Certificate Form.

#	Type	Area U-Fac.	Act. Azm.	SHGC	Glazing Type	Location / Comments
1	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
2	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
3	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
4	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
5	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
6	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
7	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
8	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
9	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
10	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
11	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
12	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
13	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
14	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
15	Window	1.80	0.860	0.25	0.40	Double Metal Low-E
16	Window	1.80	0.860	0.25	0.40	Double Metal Low-E

#	Exterior Shade Type	SHGC	Window Hgt. Wd.	Overhang Len. Hgt. LxT Rxt.	Left Fin Dist. Len. Hgt.	Right Fin Dist. Len. Hgt.
1	None	0.78				
2	None	0.78				
3	None	0.78				
4	None	0.78				
5	None	0.78				
6	None	0.78				
7	None	0.78				
8	None	0.78				
9	None	0.78				
10	None	0.78				
11	None	0.78				
12	None	0.78				
13	None	0.78				
14	None	0.78				
15	None	0.78				
16	None	0.78				

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CERTIFICATE OF COMPLIANCE

Part 1 of 2 MECH-1

PROJECT NAME: Mountain View Senior Center
 PROJECT ADDRESS: 266 Escuela Avenue Mountain View
 TELEPHONE: (415) 457-4220
 DOCUMENTATION AUTHOR: ENERGY CALC CO.
 DATE OF PLANS: 22,870 sq. ft.
 BUILDING TYPE: NONRESIDENTIAL
 PHASE OF CONSTRUCTION: NEW CONSTRUCTION
 METHOD OF MECHANICAL COMPLIANCE: PRESCRIPTIVE
 STATEMENT OF COMPLIANCE
 The Principal Mechanical Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the mechanical requirements contained in Sections 110 through 115, 120 through 124, 140 through 142, 144 and 145.
 I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am licensed in the State of California as a civil engineer, or mechanical engineer or I am a licensed architect.
 I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code by Section 5537.2 or 5737.3 to sign this document as the person responsible for its preparation, and that I am a licensed contractor performing this work.
 I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described pursuant to Business and Professions Code sections 5537, 5538, and 5737.1.

PRINCIPAL MECHANICAL DESIGNER - NAME: Laffer Engineering, Inc.
 SIGNATURE: [Signature]
 DATE: 4/15/05

MECHANICAL MANDATORY MEASURES
 Indicate location on plans of Note Block for Mandatory Measures
 INSTRUCTIONS TO APPLICANT
 For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.
 MECH-1: Required on plans for all submittals. Parts 2 may be incorporated in schedules on plans.
 MECH-2: Required for all submittals, but may be incorporated in schedules on plans.
 MECH-3: Required for all submittals unless required outdoor ventilation rates and airflow are shown on plans per Section 4.3.4.
 MECH-4: Required for Prescriptive submittals.
 MECH-5: Optional. Performance use only for mechanical distribution summary.

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CERTIFICATE OF COMPLIANCE

Part 2 of 2 MECH-1

SYSTEM NAME	CHiller	Hot Water Boiler	DHW Heater	NOTE TO FIELD
TIME CONTROL	n/a	n/a	n/a	
SETBACK CONTROL	n/a	n/a	n/a	
ISOLATION ZONES	n/a	n/a	n/a	
HEAT PUMP THERMOSTAT?	n/a	n/a	n/a	
ELECTRIC HEAT?	n/a	n/a	n/a	
FAN CONTROL	n/a	n/a	n/a	
VAV MINIMUM POSITION CONTROL?	n/a	n/a	n/a	
SIMULTANEOUS HEAT/COOL?	n/a	n/a	n/a	
HEATING SUPPLY RESET	n/a	n/a	n/a	
COOLING SUPPLY RESET	n/a	n/a	n/a	
HEAT REJECTION CONTROL	n/a	n/a	n/a	
VENTILATION	n/a	n/a	n/a	
OUTDOOR DAMPER CONTROL	n/a	n/a	n/a	
ECONOMIZER TYPE	n/a	n/a	n/a	
DESIGN O.A. CFM (MECH-3, COLUMN 1)	n/a	n/a	n/a	
HEATING EQUIPMENT TYPE	n/a	Gas Fired	Gas Fired	
HEATING EQUIPMENT EFFICIENCY	n/a	81%	80%	
COOLING EQUIPMENT TYPE	Centrifugal	n/a	n/a	
COOLING EQUIPMENT EFFICIENCY	1 CAL/KWH	n/a	n/a	
NAME AND MODEL NUMBER	112 Ton Air Cooled Chiller	BRYAN AB-120	A O SMITH BT4-120	
PIPE INSULATION REQUIRED?	Yes	Yes	Yes	
PREDUCT INSULATION PROTECTED?	Yes	Yes	Yes	
HEATING DUCT LOCATION - R-VALUE	n/a	n/a	n/a	
COOLING DUCT LOCATION - R-VALUE	n/a	n/a	n/a	
SEALED DUCTS IN CEILING ROOF SPACE?	n/a	n/a	n/a	

HEAT PUMP THERMOSTAT?	TIME CONTROL	SETBACK CTRL.	ISOLATION ZONES	FAN CONTROL
ELECTRIC HEAT?	S-Prog. Switch	R-Heating	Enter Number of Isolation Zones.	R-Ind. Vav. P-Variable Pitch
VAV MINIMUM POSITION CONTROL?	C-Occupancy Sensor	C-Cooling R-Both		N-VPD O-Other C-Curve
SIMULTANEOUS HEAT/COOL?	Yes/No			
HEAT AND COOL SUPPLY RESET?				
HEATING SUPPLY RESET	RE-AT Balance	AC Auto	AC Auto	Enter Outdoor Air CFM
COOLING SUPPLY RESET	C-Outside Air Cert.	AC Grady	AC Grady	Note: This shall be no less than Cal. H on MECH-3.
HEAT REJECTION CONTROL	RE-At. Air Measure	AC Not Required	AC Not Required	
VENTILATION	RE-Duct Control	AC Demand Control	AC Demand Control	
OUTDOOR DAMPER CONTROL	RE-At. Air Measure	AC Not Required	AC Not Required	
ECONOMIZER TYPE	RE-At. Air Measure	AC Not Required	AC Not Required	
DESIGN O.A. CFM (MECH-3, COLUMN 1)	RE-At. Air Measure	AC Not Required	AC Not Required	
HEATING EQUIPMENT TYPE	RE-At. Air Measure	AC Not Required	AC Not Required	
HEATING EQUIPMENT EFFICIENCY	RE-At. Air Measure	AC Not Required	AC Not Required	
COOLING EQUIPMENT TYPE	RE-At. Air Measure	AC Not Required	AC Not Required	
COOLING EQUIPMENT EFFICIENCY	RE-At. Air Measure	AC Not Required	AC Not Required	
NAME AND MODEL NUMBER	RE-At. Air Measure	AC Not Required	AC Not Required	
PIPE INSULATION REQUIRED?	RE-At. Air Measure	AC Not Required	AC Not Required	
PREDUCT INSULATION PROTECTED?	RE-At. Air Measure	AC Not Required	AC Not Required	
HEATING DUCT LOCATION - R-VALUE	RE-At. Air Measure	AC Not Required	AC Not Required	
COOLING DUCT LOCATION - R-VALUE	RE-At. Air Measure	AC Not Required	AC Not Required	
SEALED DUCTS IN CEILING ROOF SPACE?	RE-At. Air Measure	AC Not Required	AC Not Required	

NOTES TO FIELD - For Building Department Use Only
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CERTIFICATE OF COMPLIANCE

Part 2 of 2 MECH-1

SYSTEM NAME	MECH-1 Mech System	NOTE TO FIELD
TIME CONTROL	Programmable Switch	
SETBACK CONTROL	Heating Resettable	
ISOLATION ZONES	n/a	
HEAT PUMP THERMOSTAT?	n/a	
ELECTRIC HEAT?	n/a	
FAN CONTROL	Constant Volume	
VAV MINIMUM POSITION CONTROL?	Yes	
SIMULTANEOUS HEAT/COOL?	Yes	
HEATING SUPPLY RESET	Coldest Zone	
COOLING SUPPLY RESET	Warmest Zone	
HEAT REJECTION CONTROL	n/a	
VENTILATION	Air Balance	
OUTDOOR DAMPER CONTROL	Auto	
ECONOMIZER TYPE	Diff. Temp. (Indirect)	
DESIGN O.A. CFM (MECH-3, COLUMN 1)	18000 cfm	
HEATING EQUIPMENT TYPE	None	
HEATING EQUIPMENT EFFICIENCY	n/a	
COOLING EQUIPMENT TYPE	Build-Up VAV	
COOLING EQUIPMENT EFFICIENCY	n/a	
NAME AND MODEL NUMBER	OVERNAMES	
PIPE INSULATION REQUIRED?	Yes	
PREDUCT INSULATION PROTECTED?	Yes	
HEATING DUCT LOCATION - R-VALUE	Ducts in Attic 4.2	
COOLING DUCT LOCATION - R-VALUE	Ducts in Attic 4.2	
SEALED DUCTS IN CEILING ROOF SPACE?	No	

CODE TABLES: Enter code from table below into columns above.				
HEAT PUMP THERMOSTAT?	TIME CONTROL	SETBACK CTRL.	ISOLATION ZONES	FAN CONTROL
ELECTRIC HEAT?	S-Prog. Switch	R-Heating	Enter Number of Isolation Zones.	R-Ind. Vav. P-Variable Pitch
VAV MINIMUM POSITION CONTROL?	C-Occupancy Sensor	C-Cooling R-Both		N-VPD O-Other C-Curve
SIMULTANEOUS HEAT/COOL?	Yes/No			
HEAT AND COOL SUPPLY RESET?				
HEATING SUPPLY RESET	RE-At. Balance	AC Auto	AC Auto	Enter Outdoor Air CFM
COOLING SUPPLY RESET	C-Outside Air Cert. RE-At. Air Measure	AC Grady	AC Grady	Note: This shall be no less than Cal. H on MECH-3.
HEAT REJECTION CONTROL	RE-At. Air Measure	AC Not Required	AC Not Required	
VENTILATION	RE-Duct Control	AC Demand Control	AC Demand Control	
OUTDOOR DAMPER CONTROL	RE-At. Air Measure	AC Not Required	AC Not Required	
ECONOMIZER TYPE	RE-At. Air Measure	AC Not Required	AC Not Required	
DESIGN O.A. CFM (MECH-3, COLUMN 1)	RE-At. Air Measure	AC Not Required	AC Not Required	
HEATING EQUIPMENT TYPE	RE-At. Air Measure	AC Not Required	AC Not Required	
HEATING EQUIPMENT EFFICIENCY	RE-At. Air Measure	AC Not Required	AC Not Required	
COOLING EQUIPMENT TYPE	RE-At. Air Measure	AC Not Required	AC Not Required	
COOLING EQUIPMENT EFFICIENCY	RE-At. Air Measure	AC Not Required	AC Not Required	
NAME AND MODEL NUMBER	RE-At. Air Measure	AC Not Required	AC Not Required	
PIPE INSULATION REQUIRED?	RE-At. Air Measure	AC Not Required	AC Not Required	
PREDUCT INSULATION PROTECTED?	RE-At. Air Measure	AC Not Required	AC Not Required	
HEATING DUCT LOCATION - R-VALUE	RE-At. Air Measure	AC Not Required	AC Not Required	
COOLING DUCT LOCATION - R-VALUE	RE-At. Air Measure	AC Not Required	AC Not Required	
SEALED DUCTS IN CEILING ROOF SPACE?	RE-At. Air Measure	AC Not Required	AC Not Required	

NOTES TO FIELD - For Building Department Use Only
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MECHANICAL MANDATORY MEASURES

Part 1 of 2 MECH-MM

PROJECT NAME: Mountain View Senior Center
 DATE: 2/11/2005
 DESCRIPTION: 111 Any appliance for which there is a California